

Patent Abstracts of Japan

PUBLICATION NUMBER : 61153127
PUBLICATION DATE : 11-07-86

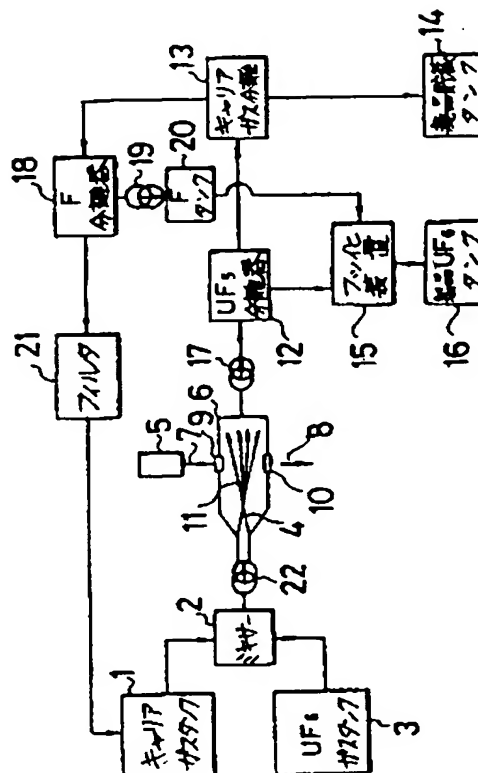
APPLICATION DATE : 27-12-84
APPLICATION NUMBER : 59278240

APPLICANT : TOSHIBA CORP;

INVENTOR : YOSHIKAWA HIDEO;

INT.CL. : B01D 59/34

TITLE : ISOTOPE SEPARATOR



ABSTRACT : PURPOSE: To recover products and waste materials more efficiently and to improve the operation rate by providing a solid and gas separator and the first and the second cold trap in the titled isotope separator of uranium, etc., by a laser beam.

CONSTITUTION: UF_5 molecules alone are separated in a UF_5 separator 12, and mixed with fluorine in a fluorination device 15 to form UF_6 which is stored in a product storage tank. Meanwhile, the other part of UF_6 , F, and a carrier gas separated in the UF_5 separator 12 are cooled in a UF_6 separator 13 at the next stage, and only UF_6 is trapped. The F and carrier gas are introduced into a fluorine separator 18. Waste UF_6 is heated in the UF_6 separator 13, and recovered in a waste material storage tank 14. The fluorine separator 18 is cooled to 50–85°K, and only the fluorine is trapped. The carrier gas is filtered by a filter 21, and fed back to a carrier gas tank 1. Besides, the fluorine is compressed by a pump 19, temporarily stored in a fluorine tank 20 and then supplied to the fluorination device 15.

COPYRIGHT: (C)1986,JPO&Japio